

IN THE CLAIMS.



Please **AMEND** claims 74, 77 and 78 in accordance with the following:

1. **(PREVIOUSLY PRESENTED)** A disc for use with a recording and/or reproducing apparatus, the disc comprising:
  - a user data area in which user data is recorded;
  - a spare area other than the user data area and which comprises a substitute area for a defective area existing in the user data area; and
  - a temporary defect management area which comprises temporary defect information and temporary defect management information recorded for a recording operation for use by the recording and/or reproducing apparatus to perform disc defect management,wherein the temporary defect management area includes an address area which comprises an address of last data that is last recorded in the user data area and which is accessed by the recording and/or reproducing apparatus.
2. **(PREVIOUSLY PRESENTED)** The disc of claim 1, wherein the temporary defect management area comprises temporary defect information and temporary defect management information recorded for each of a plurality of recording operations for use by the recording and/or reproducing apparatus to perform disc defect management.
3. **(CANCELED)**
4. **(ORIGINAL)** The disc of claim 2, wherein at least one of the temporary defect information and the temporary defect management information is repeatedly recorded on the disc.
5. **(PREVIOUSLY PRESENTED)** The disc of claim 2, further comprising a lead-in and/or a lead-out area other than the user data area and the spare area, wherein the temporary defect management area is formed in the lead-in area and/or the lead-out area other than the user data area and the spare area.
6. **(ORIGINAL)** The disc of claim 2, wherein the temporary defect management area further comprises a pointer to a recording position of the temporary defect information.

7. **(ORIGINAL)** The disc of claim 2, wherein the temporary defect management information is recorded to correspond to the temporary defect information in the temporary defect management area, the temporary defect information being recorded for each of a plurality of recording operations in which the user data is recorded in the user data area.

**8-12. (CANCELED)**

13. **(PREVIOUSLY PRESENTED)** The disc of claim 1, further comprising a defect management area in a lead-in area and/or a lead-out area of the disc,

wherein the defect management area further comprises a last recorded temporary defect information and a last recorded temporary defect management information recorded as defect information and defect management information, respectively, during finalization of the disc, and

the last recorded temporary defect information and the last recorded temporary defect management information comprise the temporary defect information and the temporary defect management information last recorded in the temporary defect management area.

14. **(ORIGINAL)** The disc of claim 13, further comprising a plurality of the defect management areas.

**15-32 (CANCELED)**

33. **(ORIGINAL)** The disc of claim 1, wherein the disc is a write-once storage medium having a property which prevents, after the data is recorded on an area of the disc, new data from being written to the area of the disc.

**34-35 (CANCELED)**

36. **(ORIGINAL)** A storage medium for use with a recording and/or reproducing apparatus, the storage medium comprising:

a user data area in which user data is recorded, the user data area comprising a first defective area; and

a management area other than the user data area and which includes a first temporary defect information area corresponding to the first defective area and comprising first temporary defect information regarding the first defective area and a copy of the first temporary defect

information that consists of the first temporary defect information,

wherein the management area is accessed by the recording and/or reproducing apparatus to perform defect management.

37. **(ORIGINAL)** The storage medium of claim 36, wherein:  
the user data area further comprises a second defective area,  
the management area further comprises a second temporary defect information area corresponding to the second defective area and comprising second temporary defect information regarding the second defective area and a copy of the second temporary defect information that consists of the second temporary defect information.

38. **(ORIGINAL)** The storage medium of claim 37, wherein:  
the second temporary defect information comprises the first temporary defect information and information regarding the second defective area, and  
the first temporary defect information does not include information regarding the second defective area.

39. **(ORIGINAL)** The storage medium of claim 38, further comprising a defect management area other than the user data area and which includes the second temporary defect information.

40. **(ORIGINAL)** The storage medium of claim 36, wherein the management area further comprises a first temporary defect management information area corresponding to the first temporary defect information area and comprising first temporary defect management information regarding the first temporary defect information and a copy of the first temporary defect management information that consists of the first temporary defect management information.

41. **(ORIGINAL)** The storage medium of claim 40, wherein:  
the first temporary defect management information comprises a pointer to a position of the first temporary defect information, and  
the first temporary defect information comprises a pointer to a position of the first temporary defect.

42. **(ORIGINAL)** The storage medium of claim 41, further comprising a spare area other than the user data area and which comprises first replacement data replacing a portion of the user data recorded in the first defective area,

wherein the first temporary defect information further comprises a pointer to a position of the first replacement data.

43. **(ORIGINAL)** The storage medium of claim 42, wherein the first temporary defect management information further includes an address of the first replacement data, and an address of a last portion of the user data to be recorded prior to recording of the first temporary defect management information.

44. **(ORIGINAL)** The storage medium of claim 36, wherein the storage medium is a write-once storage medium having a property which prevents, after the data is recorded on an area of the disc, new data from being written to the area of the storage medium.

45-51. **(CANCELED)**

52. **(PREVIOUSLY PRESENTED)** A computer readable medium encoded with processing instructions for implementing a method of managing a defect in a storage medium performed by a computer, the method comprising:

transferring user data with respect to a user data area of the storage medium, the user data area comprising a first defective area with respect to which a first portion of the user data is transferred;

transferring first replacement data comprising the first portion of the user data with respect to a spare area of the storage medium other than the user data area; and

transferring first management information with respect to a temporary defect management area of the storage medium so as to manage the user data and the first replacement data, the first management information comprising an address of a last portion of the user data to be recorded on the storage medium prior to creation of the first management information.

53. **(PREVIOUSLY PRESENTED)** The computer readable medium of claim 52, wherein the first management information further comprises:

first defect information comprising a pointer to the first defective area and a pointer to the

first replacement data, and

first defect management information comprising a pointer to the first defect information, the address of the last portion of the user data, and an address of the first replacement data or a next address of the spare area for a next defective area replacement.

54. **(PREVIOUSLY PRESENTED)** The computer readable medium of claim 52, wherein:  
if the storage medium is not to be finalized, the transferring the first management information comprises transferring the first management information with respect to the temporary defect management area,

if the storage medium is to be finalized, the transferring the first management information comprises transferring the first management information with respect to a defect management area, and

the defect management area is other than the temporary defect management area.

55. **(ORIGINAL)** The computer readable medium of claim 52, wherein:  
the user data is recorded in blocks,  
the first defect information further comprises state information indicating and differentiating between a first block type and a second block type, and  
the transferring the first management information further comprises,  
if the state information indicates the first block type, determining that the first defective area comprises a first number of continuous blocks, and  
if the state information indicates the second block type, determining that the first defective area consists of a second number of blocks which is less than the first number of blocks.

56. **(ORIGINAL)** The computer readable medium of claim 52, wherein the transferring the first management information comprises recording in a first temporary management area the first management information and a copy of the first management information consisting of the first management information.

57. **(ORIGINAL)** The computer readable medium of claim 52, wherein the storage medium is a write-once storage medium having a property which prevents, after the data is recorded on an area of the storage medium, new data from being written to the area of the storage medium.

**58. (PREVIOUSLY PRESENTED)** A recording and/or reproducing apparatus for use with a storage medium having a user data area, a temporary defect management area, and a spare area other than the user data area, the apparatus comprising:

a pickup unit that transfers user data with respect to the user data area, the user data area comprising a first defective area; and

a controller that determines an available portion of the user data area and the spare area using a first address and a second address and controls the pickup unit to

transfer the user data with respect to the user data area,

transfer first replacement data with respect to the spare area, the first replacement data comprising a portion of the user data that was recorded in the first defective area, and

transfer first management information with respect to the management area, the first management information being used by the controller to manage the user data and the first replacement data and comprising the first address comprising an address of the first replacement data or a next address of the spare area for a next defective area replacement, and the second address comprising an address of a last portion of the user data to be recorded in the user data area prior to creation of the first defect information.

**59. (PREVIOUSLY PRESENTED)** The recording and/or reproducing apparatus of claim 58, wherein the first management information further comprises:

first defect information comprising a pointer to the first defective area and a pointer to the first replacement data, and

first defect management information comprising a pointer to the first defect information, the address of the last portion of the user data, and the address of the first replacement data or the next address of the spare area for the next defective area replacement.

**60. (ORIGINAL)** The recording and/or reproducing apparatus of claim 58, wherein:

if the storage medium is not to be finalized, the controller controls the pickup unit to transfer the first management information with respect to a temporary defect management area of the management area,

if the storage medium is to be finalized, the controller controls the pickup unit to transfer the first management information with respect to a defect management area of the management area, and

the defect management area is other than the temporary defect management area.

61. **(PREVIOUSLY PRESENTED)** The recording and/or reproducing apparatus of claim 58, wherein:

the user data is recorded in blocks,

the first defect information further comprises state information indicating and differentiating between a first block type and a second block type, and

the controller,

if the state information indicates the first block type, determines that the first defective area comprises a first number of continuous blocks, and

if the state information indicates the second block type, determines that the first defective area consists of a second number of blocks which is less than the first number of blocks.

62. **(PREVIOUSLY PRESENTED)** The recording and/or reproducing apparatus of claim 58, wherein the controller controls the pickup unit to record in a first temporary management area the first management information and a copy of the first management information consisting of the first management information.

63. **(ORIGINAL)** The recording and/or reproducing apparatus of claim 58, wherein the storage medium is a write-once storage medium having a property which prevents, after the data is recorded on an area of the storage medium, new data from being written to the area of the storage medium.

64. **(PREVIOUSLY PRESENTED)** The disc of claim 1, wherein the address area further comprises a next address of the spare area for next defective area replacement.

65. **(PREVIOUSLY PRESENTED)** The disc of claim 1, wherein the address area further comprises an address of a replacement data recorded in the spare area.

66-73. **(CANCELED)**

74. **(CURRENTLY AMENDED)** An apparatus for use with a disc having a user data area, a temporary defect management area, and a spare area other than the user data area, the

apparatus comprising:

a reading unit that reads data from the disc; and

a controller that controls the reading unit to read temporary defect information and temporary defect management information to manage the temporary defect information in the temporary defect management area of the disc, wherein the temporary defect management information comprises an address of last user data that is last recorded in the user data area, and the controller accesses recorded user data based on the temporary defect information and the temporary defect management information.

75. **(PREVIOUSLY PRESENTED)** The apparatus of claim 74, wherein the temporary defect information comprises defect position information.

76. **(PREVIOUSLY PRESENTED)** The apparatus of claim 74, wherein the disc is a write-once storage medium having a property which prevents, after the data is recorded on an area of the disc, new data from being written to the area of the disc.

77. **(CURRENTLY AMENDED)** The reproducing apparatus of claim 74, wherein:  
the disc further comprises a defect management area;  
the reading unit reads the data by ~~comprises~~-reading the temporary defect information and the temporary defect management information in the defect management area and/or the temporary defect management area; and  
the controller accesses the recorded user data by ~~accessing~~-~~comprises~~-accessing the recorded user data based on the read temporary defect information and the temporary defect management information.

78. **(CURRENTLY AMENDED)** The disc of claim 65, further comprising a record layer, wherein the address of the last data and the address of the replacement ~~area~~-data are recorded to correspond to each other ~~in~~-on the record layer.